Butterflies collected from the Eastern Cape Province

By L. P. HERSALEK

From the Eastern Cape the writer has recorded ninety-five species of butterflies. These species have come from varied habitats: pine and indigenous mountain forests of Hogsback, coastal forests of Van Standens Pass; bush (thorn and cacti) of Uitenhage, the slopes of Hogsback, Witteklip hills (shrubs: protea species, Leucospermum sp., heather). Other areas investigated: Port Elizabeth and areas around Grahamstown (bush, Karroo veg.). One can simplify the above into three main habitats: (a) Forest (mainly indigenous); (b) Bush and (c) Mountain-hill. Each has its own characteristic species. Common species are those found in three habitats, rare or local species those found only in one type of habitat. Thus using the three habitats above the writer will describe butterflies collected during the past few years in the Eastern Cape Province.

(a) Forest (Coastal and mountain).

Charaxes varanes found commonly in forest clearings at Van Stadens, Hogsback, and even in bush localities (Grahamstown, Uitenhage). Varanes tends to fly low and congregates at sucking places (sap oozing from certain trees and shrubs). C. xiphares even more forest loving than varanes. I found it sparingly at Van Stadens Pass and Hogsback while a single female was seen in small tract of forest near Grahamstown. 1 found the female commonest of the sexes, and much easier to collect, as she tends to sail casually amongst the trees. Often in her aimless gliding she comes within reach of the net. Not so the male he flies rapidly and businesslike often high amongst the trees. I discovered banana bait was best at V.S.P. by which some beautiful male specimens of this blue and black charaxes were obtained. C. ethalion taken so far in forest at Th. Baines Nature Reserve (nr. G'town) found at sucking place (unlike xiphares) and being nearly uniform black. Neptis marpessa and Eurytela hiarbas are two black and white Nymphalids characteristic of this habitat. They delight in forest bushes in filtered sunlight at V.S.P. particularly. Of the four species of Papilio I have taken in the Eastern Cape, three are predominantly forest species. P. dardanaus cenea, P. nireus lyaeus, both occur commonly at the coastal forests of V.S.P. and also at Hogsback together at the latter habitat with P. echerioides a true inhabitant of the wetter mountain forests. The female of P. dardanus cenea is tailess (unlike male) and shows three forms at V.S.P.; normal female form cenea, f. trophonius (mimic of D. chrysippus) and f. hippocoonides which is black and white somewhat like Hypolimnas misippus. Antantartia hippomene is a nymphalid, like a tailed English Red Admiral, that occurs in the mountain forests of Hogsback during April. Belenois zochalia the forest white and Netheronia buqueti with its characteristic green eyes and swift flight are among some of the Pierids taken at V.S.P. I have taken no real forest Lycaenids, but of the Satyrids Meneris dendrophilus dendrophilus is a true lover of the Hogsback mountain forests. Two other species I have found in most wooded areas are Bicyclus safitza, Cassionympha cassius (Rain forest brown). the mountain forests of the Hogsback two Hesperids taken during April are: Calleagris kobela and Celaenorrhinus mokeezi the former occurs in plenty amongst grassy clearings on the forested slopes. Its large black

V(IV -9 1969

brown form is quite obvious. *Mokeezi* on the other hand keeps strictly to the damp cool forest interior. It tends to settle flat upon the upper surfaces of stray sunlit leaves and *mokeezis* yellow and brown wings blend in this condition of diffuse sunlight and shade. Another species that I have found which often settles on the undersurfaces of leaves in the forests near Uitenhage is *Tagiades flesus* being broad winged, the outer part of hindwing being grey-blue. *Eagris nottoana* also from the coastal forests is like a smaller version of *kobela*.

(b) Bush.

I shall consider this region as consisting of low shrubs and bushes (thorn, cactus, etc.) with few scattered trees (cabbage tree, acacia). This type of country is dry and offers little shade to the collector during the summer months. Most collecting was done around Uitenhage (20 miles from Port Elizabeth) and Grahamstown (70 m. North East of Uitenhage). Here in thorn and prickly pear belts of Uitenhage esp. are found a wealth of whites and skippers with a smattering of lycaenids (Hairstreaks). Colotis eris (Banded Gold Tip) is a very erratic Pierid. Weaving its way through the thorn bushes, eris defies the collectors net, the latter often suffering a series of rents from the ever present thorns. Three other Tips occur more commonly than eris in this area during December; C. evenina and C. evagore antigone have orange tips and are similar to the English Orange Tip. C. antevippe has intense scarlet tips in the male. Pinacopteryx eriphia known as the Zebra due to being all brown with white stripes and is a local inhabitant of typical bush country. Throughout the year one can usually find the following pierids: swift Catops. florella; Belenois creona; B. aurota and Eronia cleodora. Of the Hesperids Tsitana uitenhaga is a great lover of some bush areas around Uitenhage during November. In appearance it is dull brown with a white stripe on the underside and its flight similar to some of the Kedestes lepenula a brown and yellow skipper that I have found widespread but difficult to take in numbers, as only a single specimen will be met with in the course of whole days collecting in the bush. Eretis djaelaelae occurs throughout the year and when fresh from the pupa the wings are a beautiful silky black/brown-purple colour, this in the course of active butterfly frolics is lost and fades to a dingy brown. Gomalia elma the Marbled elf, with a creamy pool on the hind wing, I have taken throughout the year and elma delights in settling on pink flowers in bush areas. Borbo borbonica the Olive Haired Swift I have found rare having taken only one specimen from Grahamstown during May.

The Swallow tails P. demodecus and P. nireus lyaeus occur commonly in bush areas. The latter is often attracted to moist places by rivers. Lycaenids include the bright tailed red and black Axioceres harpax, the brilliant lustrous blue hairstreak Myrina ficedula, the purple shot Anthene definita and golden brown A. amarah from Grahamstown. While around Uitenhage I have found the minute fluttering Oraidium barberae Africas smallest butterfly. Leptomyrina hirundo and Lachnocnema bibulus occur near succulents and fig trees respectively. Only one copper appears to be definite of this area, Poecilmitis chrysaor, this golden winged species will at once approach burst from a bush in a flash of burnished copper circling at speed and finally settling again

and covering its bright surfaces with the pale brown wing undersurfaces.

(c) Mountain-hill.

Most of the species described or listed here were recorded from the hilly grassy country around Rocklands (14 m. from Uitenhage) and the more mountain like Witteklip (25 m. W. of P.E.). True mountain country was investigated at Hogsback (up to 5,000 ft.). At least three Acraeas are found in this region; A. rahira the Marsh Acraea found during September along the Brak river at Rocklands. Pardopsis punctatissima and A. anacreon are more high elevation species. The former occurs on the shrubbed slopes of the south-westerly swept Witteklip range, while anacreon I have taken in April as high as 5,000 ft. near streams at Hogsback and at 5,500 ft. have found hundreds of larvae of the common acraea A. neobule. With the exception of the above Acraeids I have found no other families more characteristic of this habitat in my collecting than the Satyrids and Lycaenids (esp. coppers and blues). Of the Satyrids I shall mention the large (4 in.) Aeropetes tulbaghia the true Mountain Pride which occurs at Witteklip in August, flying swiftly and majesticaly at or near the summits of high ground. This yellow and brown pride of the Satyridae is then difficult to capture on the wing. But apart from the Satyrids the Lycaeinids offer a more characteristic group. Of the blues one finds the beautiful large Lepidochrysops inhabiting the hill tops. L. asteris is brilliant blue, L. ortygia darker blue, and L. methyma is all brown. Cupidopsis cissus tends to be less common than the above and inhabits less elevated habitats.

What strikes my attention whenever I climb the Witteklip range near my home is the rapid flying copper, (Protea Scarlet) Capys alphaeus. This robust bright scarlet and jet black insect warily avoids the net as it swiftly takes to wing at the slightest disturbance but will usually return to its favourite perch; a dead protea twig or leaf. If one takes care one can stalk alphaeus with a degree of success. Coppers are like gems in these relatively barren hills, it is with delight when one falls amongst a colony of Poecilmitis pyroeis shot with violet blue at the base of the wings. Not far from this colony at Witteklip I have found numbers of Phasis wallengrenii during December. Further yet among the same hills in a certain valley occur a local colony of Poecilmitis palmus flying nearly throughout the year by a small stream. Palmus resembles chrysaor on the upper surface but the under surface is quite different. Thus in conclusion I have made a list of all the butterflies recorded by myself in this Province. It by no means represents a total of all Eastern Cape Province butterflies but it does I think reflect a fair majority of them. In this paper I have tried to show the concentration of certain butterfly families in three main habitats occurring in this region, and to briefly present some species characteristic or inhabiting each of these habitats.

ABREVIATIONS:

Van Stadens Pass

Witteklip

Grahamstown

Port Elizabeth

Uitenhage

V.S.P.

Wit.

G/town

P.E.

Uit.

PIERIDAE

Colotis antevippe

C. euippe

C. evagore antigone

C. eris

Colias electo
Eurema brigitta
Eronia cleodora
Catopsilia florella
Netheronia buquetii

Dixeia doxo charina Belenois creona

B. aurotaB. gidicaB. zochalia

Pinacopteryx eriphia

Pontia helice

Mylothris chloris agathina

Uit. P.E. Uit.

Uit. G/town P.E.

Uit. Wit. Everywhere Wit. P.E.

Uit. (Groendal Dam), V.S.P.

Uit. V.S.P. V.S.P.

Despatch (Uit.), V.S.P.

Uit. Uit.

V.S.P. Uit. V.S.P. only

Uit.

Everywhere V.S.P. Rocklands

PAPILIONIDAE

Papilio demodecus P. nireus lyaeus P. dardanus cenea P. echerioides

LYCAENIDAE (blues)

Azanus moriqua

A. jesous
A. ubaldus
Tarucus thespis
Cacyreus palemon
Cacyreus marshalli
Zizeeria knysna

Eicochrysops mahallokoaena

Actizera lucida
Oraidium barbarae
Brephidium metophis
Anthene amarah

A. definitaA. livida

Lepidochrysops methyma

L. asteris L. ortygia

Cupidopsis cissus Lampides boeticus Syntarucus telicanus

(Coppers)

Poecilmitis chrysaor

P. palmusP. pyroeis

Phasis wallengrenii P. macmasterii? Aloeides thyra Everywhere

Uit. V.S.P. G/town

V.S.P. Uit. G/town Hogsback

Hogsback only

Uit. G./town
Uit. G/town

Uit.

G/town Wit.

Wit.

P.E. Uit. G/town Everywhere Rocklands Wit. Rocklands Uit. (Despatch) Middelburg

G/town Uit. G/town

Uit.

Wit. Rocklands, G/town Wit. Rocklands, G/town

Rocklands, Wit. Wit. only

Everywhere Everywhere

Uit. G/town
Wit. Rocklands
Wit. only

Wit. G/town
Wit. G/town
Wit. Uit.

A. pierus

Capys alphaeus (Hairstreaks)

Myrina ficedula Deudorix antalus

(Others)

Axioceres harpax

Leptomyrina hirundo L. lara

L. lara

Lachnocnema bibulus

P.E. Uit. Wit.

Wit.

Uit.

Wit. Uit.

G/town, Despatch, Wit.

G/town only Everywhere Uit. G/town

NYMPHALIDAE

Charaxes varanes
C. xiphares
C. ethalion
Precis cebrene

P. archesiaP. octaviaEurytela hiarbas

Neptis marpess
Antanartia hippomene
Pyrameis cardui
Catacroptera cloanthe
Hypolimnas misippus

Uit., Rocklands, V.S.P., G/town V.S.P., G/town, Hogsback

G/town (Nature Res.)

Everywhere

Uit., Hogsback, V.S.P.

Hogsback V.S.P. V.S.P. Hogsback Everywhere Wit., Despatch Uit., Wit.

DANAIDAE

Danaus chrysippus

Everywhere

ACRAEDIAE

Acraea horta

A. neobuleA. rahiraA. anacreon

Pardopsis punctatissima

G/town

Hogsback, V.S.P.

Rocklands Hogsback

Wit., G/town

SATYRIDAE

Aeropotes tulbaghia

Meneris dendrophilus dendro-

philus Dira oxylus Dira clytus

Stygionympha vigilans Pseudonympha magus

Bicyclus safitza

Cassionympha cassius

Wit., G/town

Hogsback only

Hogsback

Everywhere in season

Wit., G/town Wit., G/town V.S.P., Uit.

V.S.P., Uit., G/town

HESPERIDAE

Coeliades forestan Celaenorrhinus mokeezi Tagiades flesus

Calleagris kobela Sarangesa phidyle Eagris nottoana

Eretis djaelaelae

Despatch Hogsback

Uit. (Groendal)

Hogsback Despatch Uit.

Wit., Uit.

Borbo borbonica Tsitana uitenhaga Metisella metis Kedestes lepenula Gomalia elma Gegenes hottentota

Spialia spio

S. diomus

G/town Uit.

Uit., Hogsback. P.E. V.S.P., Despatch. G/town

Uit., G/town Everywhere Rocklands Everywhere

Total 95 species.

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Some aspects of the fauna of the Ingessana hills, Sudan, with an account of an experiment with light trapping

By J. L. CLOUDSLEY-THOMPSON

The Ingessana hills lie south-west of Roseires between the Blue and White Niles in the Acacia-tall grass forest region of the Sudan (Andrews, 1948). Here the rolling grass plains south of Singa with 'heglig' (Balanites aegyptiaca Del.), 'aradeb' (Tamarindus indica Linn.), 'talh' (Acacia Seyal), 'sidr' (Zizyphus spinachristi Willd.), 'tebaldi' or baobab (Adansonia digitata Linn.), 'la'ot' (Acacia orfota (Forsk.) Schweinf.) and 'kitr' (A. mellifera Benth.) give way to rocky hills covered with grass and trees. Among the latter, Sterculia tomentosa G. & P., Bauhinia spp. and 'dom' palms (Hyphaene thebaica Mart.) are common whilst 'taraktarek' (Boswellia papyrifera Hochst.) and Ficus spp. occur on the rocky outcrops, and bamboo (Oxytenanthera abyssinica Munro) along the banks of seasonal water-courses.

During the December vacation, 1968, I decided to visit the Ingessana hills. In addition to investigating a region about which no faunistic information is available, I wanted to test the efficacy in the field of 6v. battery-operated suction mosquito light traps manufactured in U.S.A. and supplied to us by W.H.O.

Two of these traps were attached to the leeward side of the Land Rover at each camping site at a height of 1 m. The fans of each were run concurrently for two hours after sunset, but the light bulb of only one trap was connected, the other trap acting as control. The results obtained, with relevant climatic data, are given in Table I. This indicates clearly that significantly larger numbers of insects were attracted to the lighted trap than were sucked into the control, including *Culex* but not *Anopheles* mosquitoes.

As can be seen from the localities listed in Table 1, we travelled to Galegu in the Dinder National Park (Cloudsley-Thompson, J. L., 1963, *Entomologist's mon. Mag.*, 91: 65-7) and then returned to Guweisi and Es Suki, before driving down the Blue Nile to Roseires. The reason for this was that the roads had not been cleared beyond Galegu. The long grasses towered above the Land Rover and blanketed the radiator which had constantly to be cleared every time the engine boiled. Progress was